

Complete Set of Pending Claims

1. (previously presented) An optical film comprising a layered product of a light scattering film that scatters and transmits light and comprises at least two phases having different refractive indices from each other, and a reflective polarizer by which light is selectively P/S converted, wherein at least one of the phases which has the greater refractive index in the light scattering film has pillar structures extending in the thickness direction of the film, and further where the refractive index changes gradually at the interface of the greater refractive index phase and another phase, and furthermore the transmittance of the film in the normal direction of the film is not less than 4 %.

2. (canceled)

3. (previously presented) The optical film according to Claim 1, wherein axis lines of the pillar structures extending in the thickness direction of the light scattering film are in parallel with each other and the direction of the axis lines thereof are orientated in the normal direction to the film.

4. (previously presented) The optical film according to Claim 1, wherein axis lines of the pillar structures extending in the thickness direction of the light scattering film are in parallel with each other and the direction of the axis lines are inclined with respect to the normal direction to the film.

5. (previously presented) The optical film according to claim 1, wherein difference in refractive indices between at least two phases having different refractive indices of the light scattering film is in a range of 0.005 to 0.1.

6. (previously presented) The optical film according to claim 1, wherein said light scattering film is made from a polymer material having a radiation sensitive property.

7. (previously presented) The optical film according to claim 1, wherein said reflective polarizer is of a lamination type.

8. (currently amended) The optical film according to claim 1, wherein said reflective polarizer is ~~a film making use of selective reflection characteristic of a cholesteric liquid crystal~~ of a cholesteric liquid crystal type.

9. (previously presented) The optical film according to claim 3, wherein difference in refractive indices between at least two phases having different indices of the light scattering film is in a range of 0.005 to 0.1.

10. (previously presented) The optical film according to claim 3, wherein said light scattering film is made from a polymer material having a radiation sensitive property.

11. (previously presented) The optical film according to claim 3, wherein said reflective polarizer is of a lamination type.

12. (currently amended) The optical film according to claim 3, wherein said reflective polarizer is ~~a film making use of selective reflection characteristic of a cholesteric liquid crystal~~ of a cholesteric liquid crystal type.

13. (previously presented) The optical film according to claim 4, wherein difference in refractive indices between at least two phases having different refractive indices of the light scattering film is in a range of 0.005 to 0.1.

14. (previously presented) The optical film according to claim 4, wherein said light scattering film is made from a polymer material having a radiation sensitive property.

15. (previously presented) The optical film according to claim 4, wherein said reflective polarizer is of a lamination type.

16. (currently amended) The optical film according to claim 4, wherein said reflective polarizer is ~~a film making use of selective reflection characteristic of a cholesteric liquid crystal~~ of a cholesteric liquid crystal type.